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5 :	BIOSIS Previews® (1969-present)	1
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2/3,AB/1 (Item 1 from file: 5)

0006793167 Biosis No.: 198988108282

PROTECTIVE EFFICACY OF MOUSE SERUM TO THE N PROPIONYL DERIVATIVE

OF MENINGOCOCCAL GROUP B POLYSACCHARIDE

Author: ASHTON F E (Reprint); RYAN J A; MICHON F; JENNINGS H J

Author Address: BUR MICROBIOL, LAB CENTRE DIS CONTROL, TUNNEY'S

PASTURE, OTTAWA, CAN** CANADA

Journal: Microbial Pathogenesis 6 (6): p 455-458 1989

ISSN: 0882-4010

Document Type: Article **Record Type:** Abstract **Language:** ENGLISH

Abstract: The protective properties of antibodies induced by immunization of mice with a conjugate of tetanus toxoid and the N-propionyl derivative of group B meningococcal polysaccharide (N-Pr-GBMP-TT) have been investigated. Mice immunized with the conjugate produced antibodies which were bactericidal for Neisseria meningitidis strains B:2b:P1.Ham and B:15:P1.16. Passive protection studies indicated that the conjugate serum completely eliminated or reduced considerably levels of bacteremia by the same strains in mice. There was no bactericidal activity or passive protection against a strain of N. meningitidis C:2b:P1.2. Following absorption of the conjugate serum with GBMP the non-absorbed antibody, directed to N-Pr-GBMP, was bactericidal and protected mice against bacteremia with group B meningococci. Thus N-Pr-GBMP antibodies which do not bind to the GBMP are protective in vitro and in vivo.

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2/3,AB/2 (Item 1 from file: 34)

11046219 Genuine Article#: 602JQ Number of References: 27

Serological and conformational properties of E-coli K92 capsular polysaccharide and its N-propionylated derivative both illustrate that induced antibody does not recognize extended epitopes of polysialic acid: Implications for a comprehensive conjugate vaccine against groups B and CN-meningitidis

(ABSTRACT AVAILABLE)

Author: Pon RA; Khieu NH; Yang QL; Brisson JR; Jennings HJ (REPRINT)

Corporate Source: Natl Res Council Canada, Inst Biol Sci, 100 Sussex Dr/Ottawa/ON K1A OR6/Canada/ (REPRINT); Natl Res Council Canada, Inst Biol Sci, Ottawa/ON K1A OR6/Canada/

Journal: CANADIAN JOURNAL OF CHEMISTRY-REVUE CANADIENNE DE CHIMIE,

2002, V 80, N8 (AUG), P 1055-1063

ISSN: 0008-4042 Publication date: 20020800

Publisher: NATL RESEARCH COUNCIL CANADA, RESEARCH JOURNALS,

MONTREAL RD, OTTAWA, ONTARIO KIA OR6, CANADA

Language: English Document Type: ARTICLE

Abstract: The capsular polysaccharide of E. coli K92 (K92P) contains elements in common with the capsular polysaccharides of both groups B and C N. meningitidis, and may therefore form the basis of a bivalent vaccine. In an attempt to augment the cross-protective immune response to group B meningococci, the N-acetyl groups of the K92P were replaced by N-propionyl groups (NPrK92P) and conjugated to protein. This strategy had previously been applied with success to the poorly immunogenic capsular polysaccharide of group B meningococcus (GBMP), and the bactericidal epitope was found to be exclusively mimicked by extended helical segments of the NPrGBMP. The NPrK92P-conjugate, in relation to a K92P-conjugate, failed to enhance the response to GBMP but did generate a measurable response to NPrGBMP, but only at the expense of a greatly reduced GCMP response. Despite the presence of an immune response to NPrGBMP, the anti-NPrK92 serum was not bactericidal. Competitive inhibition studies with NPrGBMP oligosaccharides suggested the NPrK92 antibodies could not cross-react with the protective epitope on group B meningococci, as defined by extended helical segments of the NPrGBMP, but only recognized short nonbactericidal NPrGBMP epitopes. This hypothesis was supported from the conformational and molecular dynamics studies of the K92P, which demonstrated a lack of extended conformations that resemble the GBMP extended epitope. Indeed, the conformational properties of the K92P more closely resembled those of the GCMP, thereby explaining the observed moderate cross-protection of the K92P antiserum towards group C meningococci. Thus, on the basis of these results, it can be concluded that K92P, regardless of N-propionyl modification, will not serve as an effective single vaccine component against both groups B and C meningococci.

SciSearch(R) Cited Ref Sci (Dialog® File 34): (c) 2004 Inst for Sci Info. All rights reserved.

2/3,AB/3 (Item 1 from file: 65)

03897687 Inside Conference Item ID: CN040959245

N-propionylated E. coli K92 polysaccharide-protein conjugate elicits bactericidal antibodies in mice against group C but not group B N. meningitidis

Pon, R.; Lussier, M.; Brisson, J. R.; Jennings, H. J.

Conference: International pathogenic Neisseria conference - 11th

ABSTRACTS OF THE INTERNATIONAL PATHOGENIC NEISSERIA CONFERENCE.

1998; 11TH P: 152 Paris, EDK, 1998 ISBN: 2842540158

Language: English Document Type: Conference Selected abstracts

Location: Nice, France

1998; Nov (199811) (199811)

Inside Conferences (Dialog® File 65): (c) 2004 BLDSC all rts. reserv. All rights reserved.

2/3,AB/18 (Item 1 from file: 399)

141087318 CA: 141(6)87318m JOURNAL

Clinical evaluation of a group B meningococcal N-propionylated polysaccharide conjugate vaccine in adult, male volunteers

Author: Bruge, Joelle; Bouveret-Le Cam, Nancy; Danve, Bernard; Rougon, Genevieve;

Schulz, Dominique

Location: Aventis Pasteur France, 69280, Marcy-l'Etoile, Fr.

Journal: Vaccine Date: 2004

Volume: 22 Number: 9-10 Pages: 1087-1096

CODEN: VACCDE
ISSN: 0264-410X

Publisher Item Identifier: 0264-410X(03)00732-1

Language: English

Publisher: Elsevier Science Ltd.

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2/3,AB/20 (Item 3 from file: 399)

108148511 CA: 108(17)148511m JOURNAL

Chemically modified group B meningococcal polysaccharides as human vaccines

Author: Jennings, Harold J.; Ashton, Fraser E.; Gamian, Andrzej; Michon, Francis; Roy,

Rene

Location: Div. Biol. Sci., Natl. Res. Counc. Canada, Ottawa, ON, Can., K1A OR6

Journal: Prog. Biotechnol.

Date: 1987

Volume: 3 Number: Ind. Polysaccharides Pages: 149-56

CODEN: PBITE3
Language: English

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2/3,AB/21 (Item 4 from file: 399)

105170170 CA: 105(19)170170j JOURNAL

Induction of meningococcal group B polysaccharide-specific IgG antibodies in mice by using an N-propionylated B polysaccharide-tetanus toxoid conjugate vaccine

Author: Jennings, Harold J.; Roy, Rene; Gamian, Andrzej

Location: Div. Biol. Sci., Natl. Res. Counc. Canada, Ottawa, ON, Can., K1A OR6

Journal: J. Immunol.

Date: 1986

Volume: 137 Number: 5 Pages: 1708-13

CODEN: JOIMA3 ISSN: 0022-1767 Language: English

CA SEARCH(R) (Dialog® File 399): (c) 2004 American Chemical Society. All rights reserved.

2/3,AB/22 (Item 5 from file: 399)

104127835 CA: 104(15)127835x CONFERENCE PROCEEDING

Enhancement of the immune response to the group B polysaccharide of Neisseria

meningitidis by means of its chemical modification

Author: Jennings, Harold J.; Roy, Rene

Location: Div. Biol. Sci., Natl. Res. Counc. Canada, Ottawa, ON, Can., K1A 0R6

Journal: Pathog. Neisseriae, Proc. Int. Symp., 4th

Editor: Schoolnik, Gary K (Ed),

Date: 1985 **Pages**: 628-32

CODEN: 54ZAAE Language: English

Meeting Date: 840000

Publisher: Am. Soc. Microbiol., Washington, D. C

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Refine Search

Search Results -

Terms	Documents
(meningitidis or MenB or GBPS) same (conjugat\$ or glycoconjugat\$) same propionyl\$	13

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Search History

DATE: Monday, September 27, 2004 Printable Copy Create Case

Set Name side by side	Query	Hit Count	Set Name result set
DB=U	USPT, USOC, EPAB, JPAB, DWPI; PLUR=YES; OP=OR		
<u>L2</u>	(meningitidis or MenB or GBPS) same (conjugat\$ or glycoconjugat\$) same propionyl\$	13	<u>L2</u>
DB=U	USPT; PLUR=YES; OP=OR		
<u>L1</u>	6638513.PN.	1	<u>L1</u>

END OF SEARCH HISTORY

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Search Results - Record(s) 1 through 10 of 13 returned.

☐ 1. Document ID: US 6656472 B1

Using default format because multiple data bases are involved.

L2: Entry 1 of 13

File: USPT

Dec 2, 2003

US-PAT-NO: 6656472

DOCUMENT-IDENTIFIER: US 6656472 B1

TITLE: Multi oligosaccharide glycoconjugate bacterial meningitis vaccines

DATE-ISSUED: December 2, 2003

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Chong; Pele Richmond Hill CA
Lindberg; Alf Lyons FR
Klein; Michel H. Willowdale CA

US-CL-CURRENT: 424/193.1; 424/197.11, 424/244.1, 424/249.1, 424/250.1, 530/322,

 530/335, 530/345, 530/402, 530/403, 530/807

 Full Title Citation Front Review Classification Date Reference

Claims KWC Draw Decided Research Rese

☐ 2. Document ID: US 6642354 B2

L2: Entry 2 of 13 File: USPT

Nov 4, 2003

US-PAT-NO: 6642354

DOCUMENT-IDENTIFIER: US 6642354 B2

TITLE: Molecular mimetics of unique Neisseria meningitidis serogroup B epitopes

Full Title Citation Front Review Classification Date Reference

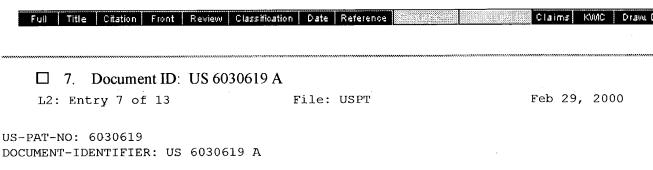
☐ 3. Document ID: US 6638513 B2

L2: Entry 3 of 13 File: USPT Oct 28, 2003

US-PAT-NO: 6638513

DOCUMENT-IDENTIFIER: US 6638513 B2

TITLE: Neisseria meningitidis serogroup B Glycoconjugates



TITLE: Molecular mimetics of meningococcal B epitopes



☐ 8. Document ID: US 5969130 A

L2: Entry 8 of 13

File: USPT

Oct 19, 1999

US-PAT-NO: 5969130

DOCUMENT-IDENTIFIER: US 5969130 A

TITLE: Meningococcal polysaccharide conjugate vaccines

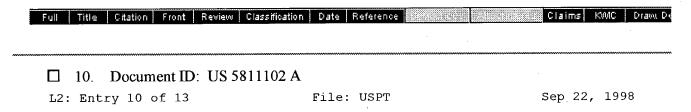
Full Title Citation Front Review Classification Date Reference Claims KMC Draw De De Document ID: US 5902586 A

L2: Entry 9 of 13 File: USPT May 11, 1999

US-PAT-NO: 5902586

DOCUMENT-IDENTIFIER: US 5902586 A

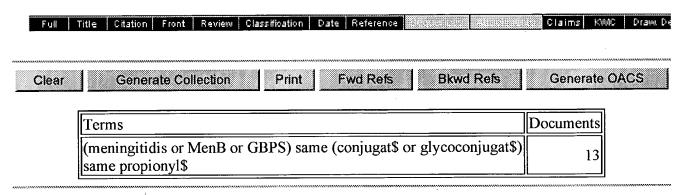
TITLE: Meningococcal polysaccharide conjugate vaccine



US-PAT-NO: 5811102

DOCUMENT-IDENTIFIER: US 5811102 A

TITLE: Modified meningococcal polysaccharide conjugate vaccines



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Clear Generate Collection Print Fwd Refs **Bkwd Refs** Generate OACS

Search Results - Record(s) 11 through 13 of 13 returned.

☐ 11. Document ID: US 5683699 A

Using default format because multiple data bases are involved.

L2: Entry 11 of 13

File: USPT

Nov 4, 1997

US-PAT-NO: 5683699

DOCUMENT-IDENTIFIER: US 5683699 A

TITLE: Meningococcal polysaccharide conjugate vaccine

DATE-ISSUED: November 4, 1997

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Jennings; Harold J. Gloucester CA Michon; Francis CA Ottawa

US-CL-CURRENT: 424/197.11; 424/193.1, 424/203.1, 530/403, 530/405, 530/409, 530/411, 536/18.7, 536/55.1

Full Title Citation Front Review Classification Date Reference Claims KWC Draw. De ☐ 12. Document ID: US 5576002 A

File: USPT

US-PAT-NO: 5576002

DOCUMENT-IDENTIFIER: US 5576002 A

L2: Entry 12 of 13

TITLE: Meningococcal polysaccharide conjugate vaccine

Full Title Citation Front Review Classification Date Reference Claims KMC Draw. De ☐ 13. Document ID: US 4727136 A

L2: Entry 13 of 13

File: USPT

Feb 23, 1988

Nov 19, 1996

US-PAT-NO: 4727136

DOCUMENT-IDENTIFIER: US 4727136 A

TITLE: Modified meningococcal group B polysaccharide for conjugate vaccine

Full	Title Citation Front Review Classification Date Reference	e e	Claims KWC Draw, De
Clear	Generate Collection Print Fwd Refs	Bkwd Refs	Generate OACS
	Terms		Documents
	(meningitidis or MenB or GBPS) same (conjugat same propionyl\$	\$ or glycoconjugat\$)	13

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